

Abstract:

5 Title: Electrical matching network with a transformation line.

For electrical matching of an electrical component, a network with a transformation line is proposed which is realized in or on a substrate, preferably a ceramic substrate. The network has a prescribed electrical length for achieving a desired phase shift, and comprises at least two electrical conductors (LE) each of which has a bent-over configuration (e.g. Greek fret pattern) comprising straight segments joined [sic] at right angles, in a respective conductor plane for the given conductor (LE), and which conductors (LE) are interconnected. Mutually parallel conductor segments disposed in different conductor planes partially overlap and are thereby mutually capacitively coupled, with the capacitive coupling being adjustable by adjusting of individual overlap areas, so as to achieve the 10 prescribed electrical length and prescribed impedance of the transformation line.

15

(Fig. 6)